TOPCED*T8WE2860

Blakely Sokoloff Taylor & Zafman LLP
BSTZ Docket No.: 42390P9711
Title: "System and Method Or Reducing Ingress Noise"
Inventors: Jeffrey C. Harp
Ernest T. Tsui
Page 1 of 7

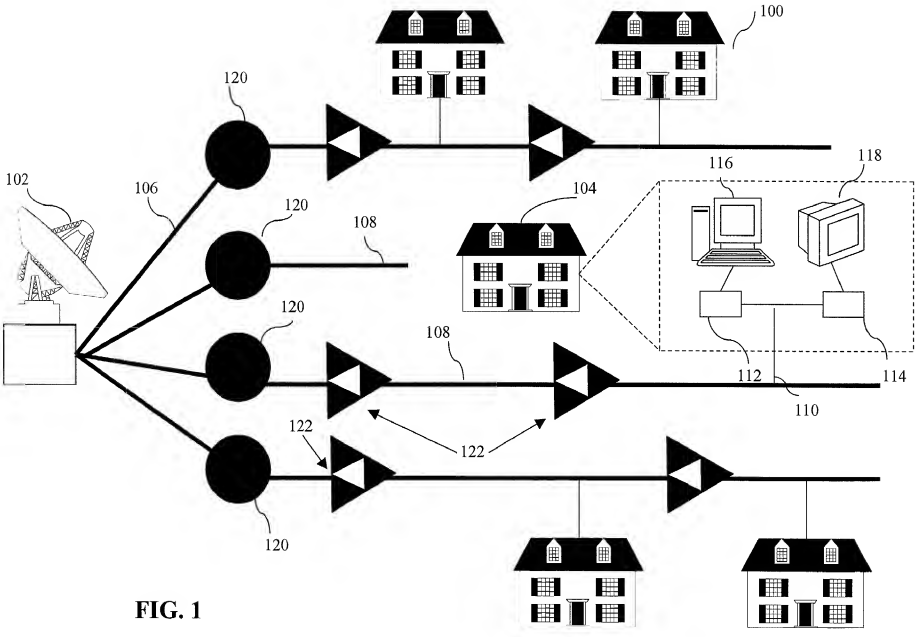


FIG. 1

Blakely Sokoloff Taylor & Zafman LLP
BSTZ Docket No.: 42390P9711
Title: "System and Method Of Reducing Ingress Noise"
Inventors: Jeffrey C. Harp
Ernest T. Tsui
Page: 2 of 7

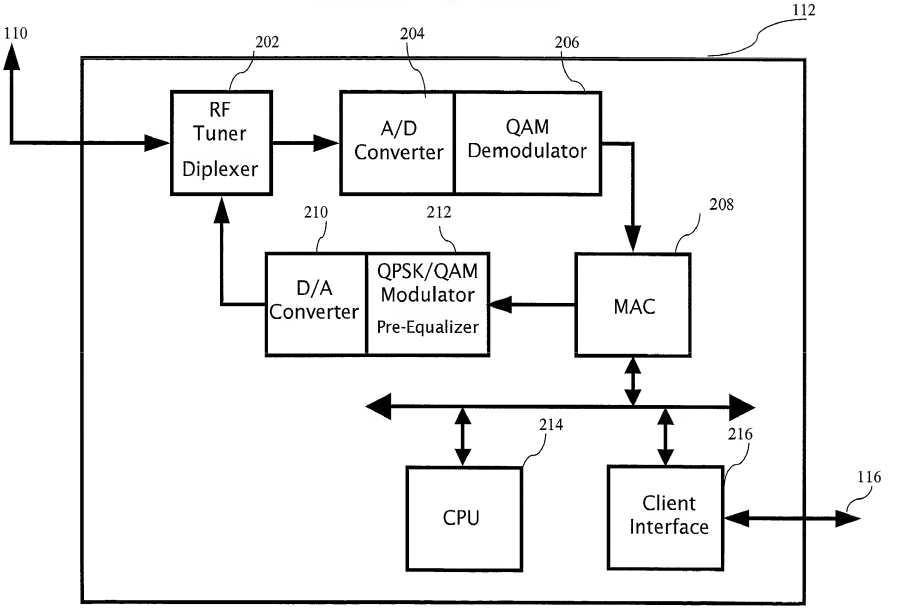


FIG. 2

Blakely Sokoloff Taylor & Zafman LLP
BSTZ Docket No.: 42390P9711
Title: "System and Method Of Reducing Ingress Noise"
Inventors: Jeffrey C. Harp
Ernest T. Tsui
Page: 3 of 7

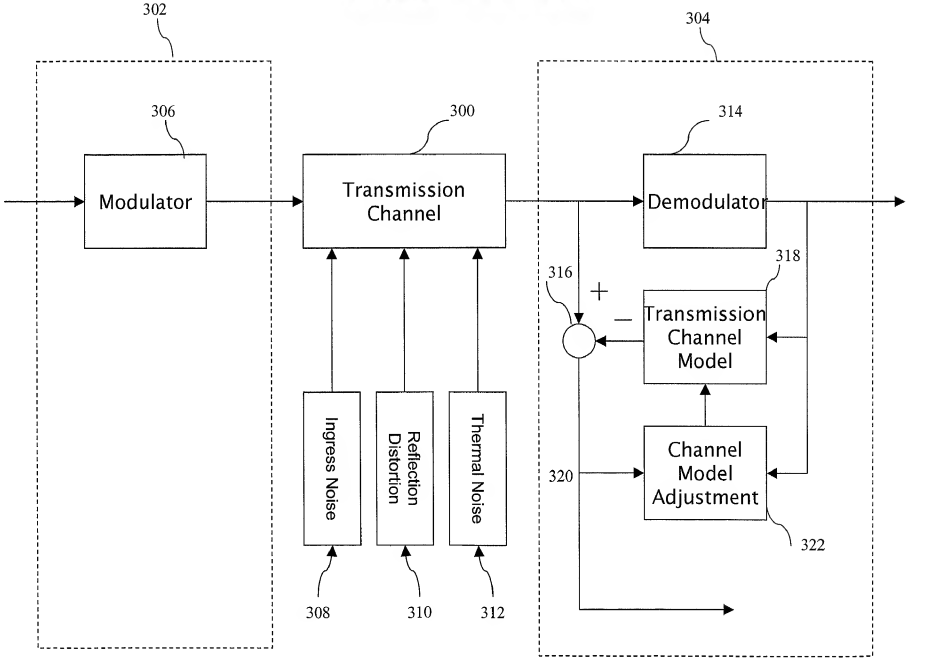


FIG. 3

Blakely Sokoloff Taylor & Zafman LLP
BSTZ Docket No.: 42390P9711
Title: "System and Method Of Reducing Ingress Noise"
Inventors: Jeffrey C. Harp
Tzvetost T. Tsui
Page: 4 of 7

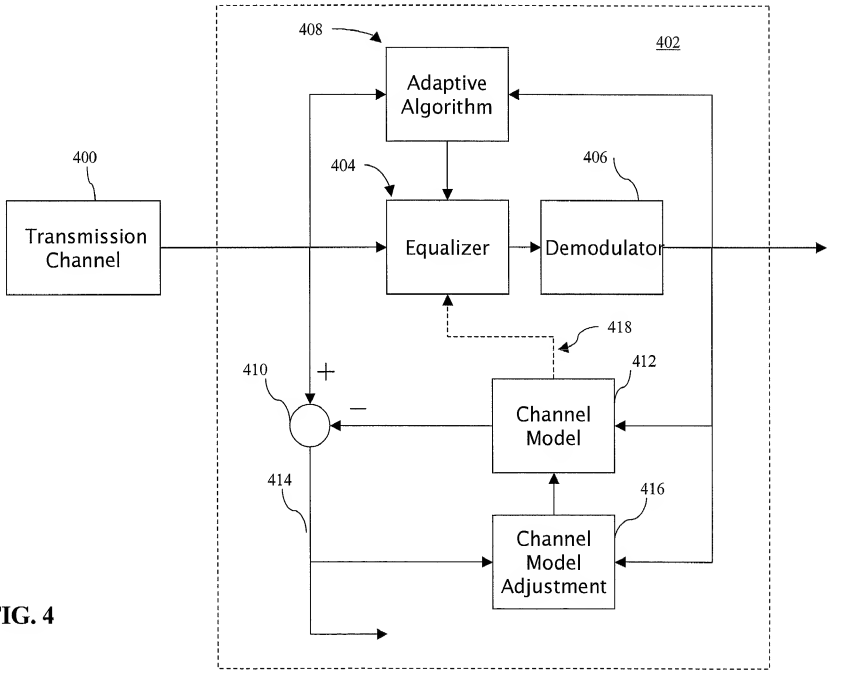


FIG. 4

Blakely, Sokoloff Taylor & Zafman LLP
BST2 Docket No.: 4230/P9711
Title: "System and Method Of Reducing Ingress Noise"
Inventors: Jeffrey C. Herp
Ernest T. Tsui
Page: 5 of 7

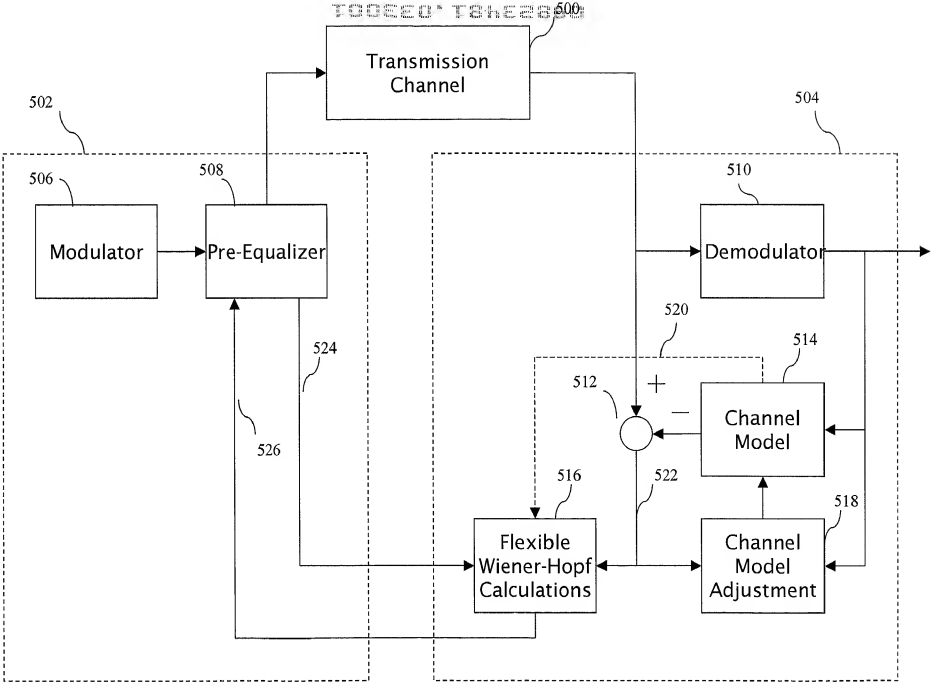


FIG. 5

Blakely Sokoloff Taylor & Zafman LLP
BSTZ Docket No.: 42389P2811
Title: "System and Method Of Reducing Ingress Noise"
Inventors: Jeffrey C. Harp
Ernest T. Tsui
Page: 6 of 7

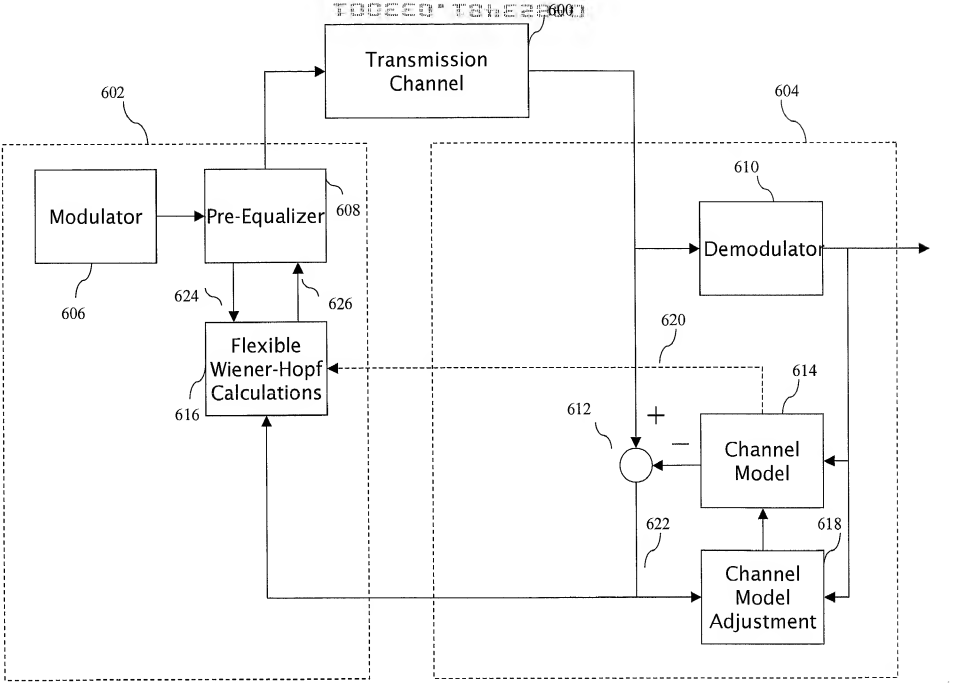
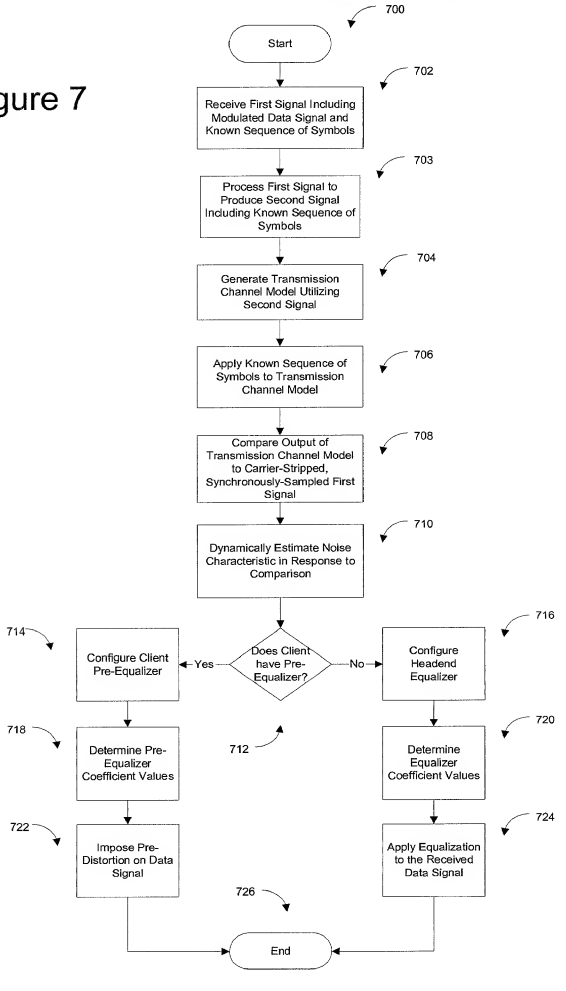


FIG. 6

Figure 7


700
Start
702
Receive First Signal Including Modulated Data Signal and Known Sequence of Symbols
703
Process First Signal to Produce Second Signal Including Known Sequence of Symbols
704
Generate Transmission Channel Model Utilizing Second Signal
706
Apply Known Sequence of Symbols to Transmission Channel Model
708
Compare Output of Transmission Channel Model to Carrier-Stripped, Synchronously-Sampled First Signal
710
Dynamically Estimate Noise Characteristic In Response to Comparison
712
Does Client have Pre-Equalizer?
Yes
No
714
Configure Client Pre-Equalizer
716
Configure Headend Equalizer
718
Determine Pre-Equalizer Coefficient Values
720
Determine Equalizer Coefficient Values
722
Impose Pre-Distortion on Data Signal
724
Apply Equalization to the Received Data Signal
726
End